



Circulator N Female With 18 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts

Fairview Microwave carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1). The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The SFC1722N is a single junction circulator that operates from 1.7 to 2.2 GHz and can handle up to 10 Watts (CW) in the forward and reverse direction. The coaxial part uses N female connectors on all ports and has electrical specifications of 1.25:1 max VSWR, 18 dB min isolation and 0.4 dB max insertion loss. The package is REACH and RoHS certified.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	1.7		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.4	dB
Isolation	18			dB
VSWR			1.25:1	
Forward Power, CW			10	Watts
Reverse Power, CW			10	Watts

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

Lenath 2.5 in [63.5 mm] Width 2.5 in [63.5 mm] Height 1.02 in [25.91 mm] Weight 0.88 lbs [399.16 q]

Configuration

Single Junction Design Package Style Connectorized Connector 1 N Female Connector 2 N Female Connector 3 N Female

Environmental Specifications

Temperature

Operating Range -20 to +65 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant Yes



Features:

- Single Junction Circulator
- 1.7 to 2.2 GHz Frequency Range
- Max Forward and Reverse Power 10W (CW)
- Insertion Loss < 0.4 dB
- VSWR < 1.25:1
- Isolation > 18 dB
- N Female Connectors

Applications:

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





REACH Compliant

12/17/2015

Plotted and Other Data

Notes:

Circulator N Female With 18 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Circulator N Female With 18 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts SFC1722N

URL: http://www.fairviewmicrowave.com/n-circulator-18-db-isolation-1.7-2.2-ghz-10-watts-sfc1722n-p.aspx

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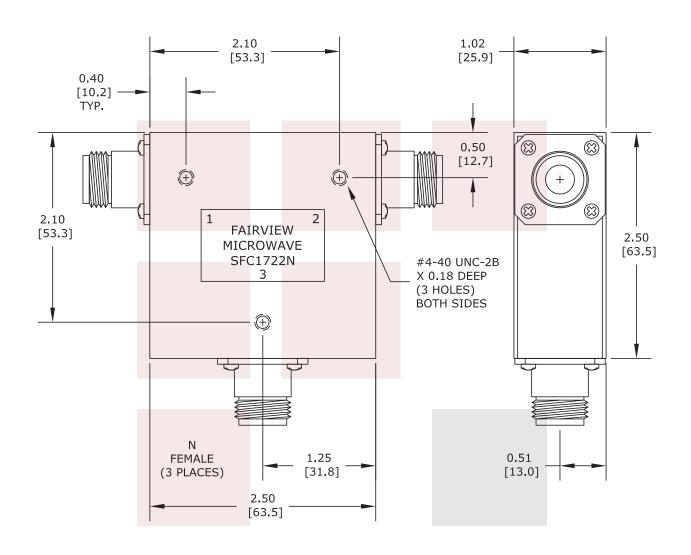
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STANDARD TOLERANCES

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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
Circulator N Female With 18 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts	DWG NO SFC1722N			CAGE CODE 3FKR5			
	CAD FILE 041316	SHEET	SCALI	E N/A	SIZE A	3045	